Gainward GeForce GT 220 1GB HDMI DVI

GPU	Core	Memory	Capacity	Type	Outputs
GeForce GT 220	645 MHz	790 MHz	1GB	DDR3 / 128 bits	DVI-I, HDMI, VGA

PRODUCT SPECIFICATIONS

- **Superior Hardware Design**
- **Gainward's** award winning High-Performance/ Wide-Bandwidth™ hardware design powered by NVIDIA's GeForce™ **GT 220** GPU integrating **1024MB**/128bits high-speed **DDR3** memory which offers enhanced, leading-edge performance for the 3D enthusiasts.
- **645MHz** core clock and **790MHz** (DDR 1580) memory clock speed.
- High performance fan cooling.
- Provides **DVI-I** (Dual-link DVI, support up to 2560x1600), **HDMI** and **VGA (D-sub 15)** connectors.
- Full integrated support for **HDMI** 1.3a including xvYCC, Deep color and 7.1 digital surround sound**.**
- Supports two monitors simultaneously, enabled by the NVIDIA **nView™** Multi-Display Technology for office applications, 3D gaming and professional applications such as CAD, DTP, animation or video editing. NVIDIA **nView™** allows end-users to select any combination of multiple displays.
- Includes Gainward's award winning **EXPERTool™ tuning utility** for customized performance enhancements and efficient desktop management.

CHIPSET SPECIFICATIONS

- **NVIDIA unified architecture**: Fully unified shader core dynamically allocates processing power to geometry, vertex, physics, or pixel shading operations, delivering up to 2x the gaming performance of prior generation GPUs.
- **NVIDIA CUDA Technology**: CUDA technology unlocks the power of the GPU's processor cores to accelerate the most demanding system tasks – such as video transcoding – delivering incredible performance improvement over traditional CPUs.
- **Microsoft Windows 7 Support:** Windows 7 is the next generation operating system that will mark a dramatic improvement in the way the OS takes advantage of the GPU to provide a more compelling user experience. By taking advantage of the GPU for both graphics and computing, Windows 7 will not only make today's PCs more visual and more interactive but also ensure that they have the speed and responsiveness customers want.
- **DirectCompute Support:** Full support for DirectCompute, Microsoft's GPU computing API.
- **NVIDIA PhysX Technology**: Enabling a totally new class of physical gaming interaction for a more dynamic and realistic experience with GeForce.

BUNDLED ACCESSORIES

- Gainward QuickStart Manual

- Driver CD and Application S/W

Driver for Windows 7/Vista/XP

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- **PureVideo™ HD technology -** The combination of high-definition video decode acceleration and post-processing that delivers unprecedented picture clarity, smooth video, accurate colour, and precise image scaling for movies and video.
- **Hardware Decode Acceleration:** Provides ultra-smooth playback of H.264, VC-1, WMV, DivX, MPEG-2 and MPEG4 HD and SD movies without the need for a dual or quad-core CPU.
- **NVIDIA GeForce Unified Driver Architecture (UDA):** Delivers a proven record of compatibility, reliability, and stability with the widest range of games and applications. NVIDIA GeForce drivers provide the best out-of-box experience and deliver continuous performance and feature updates over the life of NVIDIA GeForce GPU.
- **PCI Express 2.0 Support:** Designed for the new PCI Express 2.0 bus architecture, offering the highest data transfer speeds for the most bandwidth-hungry games and 3D applications, while maintaining backwards compatibility with existing PCI Express motherboards for the broadest support.
- **GigaThread Technology:** Massively multi-threaded architecture supports thousands of independent, simultaneous threads, providing extreme processing efficiency in advanced, next generation shader programs.
- **NVIDIA Lumenex Engine:** Delivers stunning image quality and floating point accuracy at ultra-fast frame rates:

  16x Anti-aliasing: Lightning fast, high-quality anti-aliasing at up to 16x sample rates obliterates jagged edges.

  128-bit floating point High Dynamic-Range (HDR) Lighting: Twice the precision of prior generations for incredibly realistic lighting effects – now with support for anti-aliasing.
- **OpenCL Support:** Full support for OpenCL GPU computing API.
- **OpenGL 3.2 Optimizations and Support:** Ensures top-notch compatibility and performance for OpenGL applications.
- **Dual-link HDCP Capable:** Designed to meet the output protection management (HDCP) and security specifications of the Blu-ray Disc formats, allowing the playback of encrypted movie content on PCs when connected to HDCP-compliant displays.

Note: Gainward's bundle items are subject to change. Please refer to your local Gainward dealer for more information, or the description in the regional product package

SYSTEM REQUIREMENTS

- Intel Core2Duo series, AMD Athlon 64 X2 series or above CPU
- A minimum of 1GB system memory
- A minimum 350W power supply unit.
- DVD-ROM drive
- Requires a PCI Express or PCI Express 2.0-compliant motherboard
- Requires an available PCI Express x16 slot
- Windows 7/Vista/XP

API SUPPORT

- DirectX 10.1 GPU with SM 4.1 support
- OpenGL 3.2 support
- OpenCL support

OS SUPPORT

- Windows 7/Vista/XP

BAR CODE

- Small Box: 426018336-1343